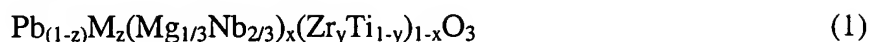


## Amendment to the Claims

1. (Original) A composition comprising a ceramic of formula 1 below:



wherein M is selected to be either Sr or Ba, x is selected to be between about 0.1 and about 0.7, y is selected to be between about 0.20 and about 0.70, and z is selected to be between about 0.02 and about 0.1.

2. (Original) The composition of claim 1 comprising a dopant selected from the group consisting of:  $\text{MnO}_2$ ,  $\text{Ni}_2\text{O}_3$ ,  $\text{TeO}_2$ ,  $\text{MoO}_3$ ,  $\text{Nb}_2\text{O}_5$ ,  $\text{Ta}_2\text{O}_5$ ,  $\text{Y}_2\text{O}_3$ ,  $\text{CoCO}_3$ ,  $\text{Sm}_2\text{O}_3$ , and mixtures thereof.

3. (Original) The composition of claim 2 containing between about 0.2 and about 0.4 wt %  $\text{MnO}_2$  and between about 1.4 and about 1.8 wt %  $\text{Nb}_2\text{O}_5$ .

4. (Original) The composition of claim 1 wherein M is Ba.

5. (Original) The composition of claim 1 wherein M is Sr.

6. (Original) The composition of claim 5 wherein z is selected to be between about 0.4 and about 0.7.

7. (Original) The composition of claim 1 wherein x is selected to be between about 0.2 and about 0.4

8. (Original) The composition of claim 7 wherein y is selected to be between about 0.2 and about 0.50.

9. (Original) The composition of claim 1 wherein y is selected to be between about 0.2 and about 0.50.

10. (Original) The composition of claim 9 wherein z is selected to be between about 0.04 and about 0.08.

11. (Original) The composition of claim 1 wherein z is selected to be between about 0.04 and about 0.08.

12. (Original) The composition of claim 1 having a density between about 7.65 and about 7.8 g/cc.

13. (Original) A piezoelectric element comprising the composition of claim 1 and having at least two electrodes formed thereon.

14. (Original) The composition of claim 1 exhibiting a mechanical quality factor  $Q_m$  of at least 900.

15. (Original) The composition of claim 1 exhibiting a relative permittivity ( $\epsilon$ ) of at least 2000 F/m.

16. (Original) The composition of claim 1 exhibiting a relative permittivity ( $\epsilon$ ) of at least 2500 F/m.

17. (Original) The composition of claim 1 exhibiting a piezoelectric strain constant ( $d_{33}$ ) of at least 300 PC/N.

18. (Original) The composition of claim 1 provided as a piezoelectric ceramic.

19. (Original) The composition of claim 1 provided as a ferroelectric ceramic.

20-31. (Canceled)